

Title (en)  
FISH COUNTING SYSTEM, FISH COUNTING METHOD, AND PROGRAM

Title (de)  
FISCHZÄHLSYSTEM, FISCHZÄHLVERFAHREN UND PROGRAMM

Title (fr)  
SYSTÈME DE COMPTAGE DE POISSONS, PROCÉDÉ DE COMPTAGE DE POISSONS ET PROGRAMME

Publication  
**EP 4049534 A4 20240103 (EN)**

Application  
**EP 20868392 A 20200915**

Priority  
• JP 2019177654 A 20190927  
• JP 2020034937 W 20200915

Abstract (en)  
[origin: EP4049534A1] This fish counting system (3) comprises: an image acquisition unit (30) that acquires a plurality of images obtained by capturing, over time, images of a photographing area in which a fluid including a fish (1) flows; an extraction unit (31) that extracts a fish in each image; and a counting unit (34) that counts the number of fish. The photographing area has a first area (Ar1) and a second area (Ar2). The counting unit (34) counts the fish when the fish in the first area (Ar1) moves to the second area (Ar2).

IPC 8 full level  
**G06M 11/00** (2006.01); **A01K 61/95** (2017.01); **G06M 7/00** (2006.01); **G06T 7/20** (2017.01); **G06V 10/147** (2022.01); **G06V 10/62** (2022.01); **G06V 20/05** (2022.01); **G06V 20/52** (2022.01)

CPC (source: CN EP US)  
**A01K 61/95** (2016.12 - CN EP US); **G06M 11/00** (2013.01 - EP); **G06T 1/0007** (2013.01 - CN); **G06T 7/20** (2013.01 - EP); **G06T 7/70** (2016.12 - CN US); **G06V 10/147** (2022.01 - EP); **G06V 10/62** (2022.01 - EP); **G06V 20/05** (2022.01 - EP); **G06V 20/52** (2022.01 - EP); **G06T 2207/30242** (2013.01 - CN EP); **Y02A 40/81** (2017.12 - EP)

Citation (search report)  
• [XAI] CN 106022459 A 20161012 - UNIV CHINA THREE GORGES CTGU  
• See references of WO 2021060078A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 4049534 A1 20220831**; **EP 4049534 A4 20240103**; AU 2020353503 A1 20220407; AU 2020353503 B2 20231116; CN 114402363 A 20220426; JP 2021052632 A 20210408; JP 7237789 B2 20230313; US 2022354096 A1 20221110; WO 2021060078 A1 20210401

DOCDB simple family (application)  
**EP 20868392 A 20200915**; AU 2020353503 A 20200915; CN 202080058242 A 20200915; JP 2019177654 A 20190927; JP 2020034937 W 20200915; US 202017764097 A 20200915